## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Currently Amended) A component mounting device, comprising:
  - a component collar;
  - a vertical rack gear on the component collar;
  - a horizontal rack gear on the component collar;
- a component mounting frame configured designed to receive the component collar;
  [[and]]
  - a clocked gear assembly coupled to the component mounting frame[[,]];
  - a vertical clocked gear in the clocked gear assembly; and
- a horizontal clocked gear in the clocked gear assembly, wherein the clocked gear assembly configured the vertical clocked gear is designed to engage the vertical rack gear and the horizontal clocked gear is designed to engage the horizontal rack gear to enable movement of the component collar in at least two substantially perpendicular directions to actively enable the component.
- 2. (Currently Amended) The component mounting device of claim 1, further comprising:
  - a vertical rack gear on the component collar;
  - a horizontal rack gear on the component collar;
  - a vertical clocked gear in the clocked gear assembly;
  - a horizontal clocked gear in the clocked gear assembly; and
  - a lever for controlling the vertical clocked gear and the horizontal clocked gear,

wherein the vertical rack gear meshes with the vertical clocked gear to enable

movement of the component collar in a first direction and the horizontal rack gear meshes

with the horizontal clocked gear to enable movement of the component collar in a second

direction, the first direction and the second direction being substantially perpendicular.

3. (Previously Presented) The component mounting device of claim 2, wherein

movement in the first direction and in the second direction is accomplished by movement

of the lever along an arc.

4. (Original) The component mounting device of claim 3, wherein the lever includes a

first pin to engage the vertical clocked gear, the vertical clocked gear having a first slot for

receiving the first pin, and the lever includes a second pin to engage the horizontal clocked

gear, the horizontal clocked gear having a second slot for receiving the second pin.

5. (Original) The component mounting device of claim 4, wherein movement of the

lever through a first segment of the arc causes the first pin to engage the first slot to move

the vertical clocked gear and movement of the lever through a second segment of the arc

causes the second pin to engage the second slot to move the horizontal clocked gear.

6. (Original) The component mounting device of claim 5, wherein the first pin

disengages from the first slot and the second pin engages the second slot at a cross-over

point.

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- 7. (Original) The component mounting device of claim 5, wherein the arc is defined by approximately 90 degrees, the first segment being defined by approximately 45 degrees and the second segment being defined by approximately 45 degrees.
- 8. (Original) The component mounting device of claim 1, wherein movement of the component in a first direction is configured to enable insertion of the component device into an array of component devices and movement of the component in a second direction is configured to enable connection of the component to a board connector.
- 9. (Currently Amended) A component mounting device, comprising:
- a component collar for holding a component, the component collar having a first rack gear and a second rack gear;
- a component mounting frame configured designed to receive the component collar; and
- a clocked gear assembly coupled to the component mounting frame, the clocked gear assembly having a first clocked gear and a second clocked gear, the first clocked gear designed to effect the clocked gear assembly configured to enable movement of the component collar in a first direction upon initial engagement with the first rack gear of the component mounting frame, and the second clocked gear designed to effect movement of the component collar in a second direction upon release of the first clocked gear elocked gear assembly by first rack gear and engagement of the second rack gear to the second clocked gear elocked gear elocked gear elocked gear elocked gear elocked gear assembly.
- 10. (Currently Amended) The component mounting device of claim 9, wherein the clocked gear assembly is further configured to enable effect movement of the component

collar in the first direction upon release of the elocked gear assembly second clocked gear by the second rack gear of the component mounting frame, and engagement of the first rack

gear to the elocked gear assembly first clocked gear.

11. (Original) The component mounting device of claim 9, wherein the component

mounting frame comprises a track for engaging the component collar, the track guiding the

component collar during movement of the component collar in the first direction and

guiding the component collar during movement of the component collar in the second

direction.

12. (Original) The component mounting device of claim 9, wherein movement of the

component collar in the second direction is configured to enable connection of the

component to a board connector.

13. (Original) The component mounting device of claim 10, wherein movement of the

component collar in the first direction is configured to enable insertion of the component

into an array of components and is further configured to enable extraction of the

component from an array of components.

14. (Currently Amended) A computer component mounting device, comprising:

a computer component disposed in a component collar, the component collar

having a vertical rack gear and a horizontal rack gear;

a component mounting frame configured designed to receive the component collar;

and

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a clocked gear assembly having a vertical clocked gear and a horizontal clocked gear, the vertical rack gear meshed with the vertical clocked gear to effect configured to enable movement of the computer component in each of a first direction and the horizontal rack gear meshes with the horizontal clocked gear to effect movement of the component in a second direction, wherein the computer component mounting device provides for positioning the computer component in the first direction and for positioning the computer eomponent in the second direction, and the second direction is substantially perpendicular to the first direction.

(Currently Amended) The computer component mounting device of claim 14, 15. wherein the clocked gear assembly includes:

a vertical clocked gear;

a horizontal clocked gear; and

a lever for controlling the vertical clocked gear and the horizontal clocked gear,

wherein the vertical clocked gear and the horizontal clocked gear are independently actuated by movement of the lever, the lever having a first pin configured to engage a first slot on the vertical clocked gear and the lever further having a second pin configured to engage a second slot on the horizontal clocked gear.

- 16. (Original) The computer component mounting device of claim 15, wherein positioning the computer component in the first direction and in the second direction is accomplished by movement of the lever in through a single arc.
- (Original) The computer component mounting device of claim 15, wherein 17. movement of the lever through a first arc segment causes the first pin to engage the first

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slot to move the vertical clocked gear, and movement of the lever through a second arc

segment causes the second pin to engage the second slot to move the horizontal clocked

gear.

(Currently Amended) A computer device carrier system, comprising: 18.

a carrier blade capable of receiving a plurality of computer devices and further

configured to arrange the plurality of computer devices in at least one array of computer

devices;

a computer device collar coupled to a computer device, the computer device collar

having a vertical rack gear and a horizontal rack gear; and

a computer device frame attached to the carrier blade, the computer device frame

providing positioning and support for [[a]] the computer device, and including a clocked

gear assembly having a vertical clocked gear and a horizontal clocked gear capable of

positioning the computer device in each of a first direction upon engagement of the vertical

clocked gear with the vertical rack gear and positioning the computer device in a second

direction upon release of the engagement of the vertical clocked gear with the vertical rack

gear and engagement of the horizontal clocked gear with the horizontal rack gear, wherein

the second direction is substantially perpendicular to the first direction; and

a computer device collar coupled to the computer device, the computer device

collar configured to be received by the computer device frame to position and support the

computer device.

19. (Currently Amended) The computer device carrier system of claim 18, wherein the

clocked gear assembly includes:

a vertical clocked gear;

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## a horizontal clocked gear; and

a lever for controlling the vertical clocked gear and the horizontal clocked gear,

wherein the vertical clocked gear and the horizontal clocked gear are independently actuated by movement of the lever, the lever having a first pin configured to engage a first slot on the vertical clocked gear, and a second pin configured to engage a second slot on the horizontal clocked gear, and movement of the lever through a first arc causes the first pin to engage the first slot to move the vertical clocked gear and movement of the lever through a second arc causes the second pin to engage the second slot to move the horizontal clocked gear, and a cross-over point being defined when the first pin disengages from the first slot and the second pin engages the second slot.

20. (Currently Amended) In an integrated computer and server component rack, a storage array carrier system, comprising:

a carrier blade capable of receiving a plurality of storage devices and arranging the plurality of storage devices in a plurality of linear arrays;

a storage device frame attached to the carrier blade to position and to secure a storage device, the storage device frame including a clocked gear assembly <u>having a</u> <u>vertical clocked gear and a horizontal clocked gear configured to enable movement of the storage device in at least two substantially perpendicular directions</u>; and

a device collar coupled to the storage device, the device collar eapable of being designed to be received in a track of the storage device frame, the device collar having a vertical rack gear and a horizontal rack gear, wherein the vertical rack gear meshes with the vertical clocked gear to move the storage device in a first direction and the horizontal rack gear meshes with the horizontal clocked gear to move the storage in a second direction substantially perpendicular to the first direction configured to mesh with the clocked gear

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assembly to position the storage device and to connect the storage device to, and

disconnect the storage device from, a power and data connection.

21. (Currently Amended) In an integrated computer and server component rack, the

storage array carrier system of claim 20, wherein the clocked gear assembly includes:

a vertical clocked gear;

a horizontal clocked gear; and

a lever for controlling the vertical clocked gear and the horizontal clocked gear,

wherein the vertical clocked gear and the horizontal clocked gear are independently

actuated by movement of the lever to mesh with each of a vertical rack gear of the device

collar and a horizontal rack gear of the device collar for inserting the storage device into

and removing the storage device from a location in one of the plurality of linear arrays of

storage devices without one of connecting and disconnecting another storage device.

22.-28. (Cancelled)